## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method, comprising:

requesting an operating system to place a computer system in a hibernation mode;

gathering a state of the computer system;

storing the system state to a first non-volatile memory of the computer system[[,]]; and

storing the system state to a second non-volatile memory of the computer system,

wherein the second non-volatile memory is internal to the computer system.

- 2. (Original) The method of claim 1, wherein the state of the computer system is gathered by the operating system.
- 3. (Original) The method of claim 1, wherein the first non-volatile memory has a storage capacity between 50-2000 megabytes, wherein the second non-volatile memory has a greater storage capacity than the first non-volatile memory.
- 4. (Currently Amended) The method of claim 3, wherein the first non-volatile memory is logically coupled to [[a]] the second non-volatile memory.
- 5. (Currently Amended) The method of claim 1, further comprising:

  powering off the computer system <u>including powering off the second non-volatile</u> memory.
- 6. (Original) The method of claim 5, further comprising:

Atty Docket No. 42P15529 Application No. 10/643,826 powering on the computer system; and

loading the system state from the first non-volatile memory.

7. (Original) The method of claim 1, wherein the system state comprises contents of

a central processing unit.

8. (Currently Amended) A method, comprising:

requesting that a computer system be placed in a hibernation mode;

writing a state of the system to a hard disk drive of the [[communication]] computer

system having a non-volatile memory cache; [[and]]

storing the state of the system to the hard disk drive cache; and

reducing power of the hard disk drive.

9. (Original) The method of claim 8, further comprising:

requesting data from the cache to restore the state of the system after hibernation.

10. (Original) The method of claim 8, wherein the computer system is a mobile

computer system.

11. (Original) The method of claim 8, wherein the computer system is a desktop

computer system.

12. (Currently Amended) A method, comprising:

requesting that a computer system having a hard disk drive and a non-volatile memory

coupled to the hard disk drive be placed in a hibernation mode;

determining an address location of the non-volatile memory; [[and]]

Atty Docket No. 42P15529 Application No. 10/643,826 4

writing contents of a central processing unit to the non-volatile memory; and reducing power of the hard disk drive.

- 13. (Original) The method of claim 12, further comprising: writing contents of an operating system to the non-volatile memory.
- 14. (Original) The method of claim 12, further comprising:
  writing contents of a random access memory to the non-volatile memory.
- 15. (Original) The method of claim 12, further comprising: powering off the computer system.
- 16. (Original) The method of claim 15, further comprising:

  awakening the computer system from the hibernation mode; and
  initiating a load sequence from the non-volatile memory to restore the
  system to the contents of the central processing unit.
- 17. (Original) The method of claim 16, further comprising: restoring the contents of the operating system.
- 18. (Original) The method of claim 16, further comprising: restoring the contents of the random access memory.
- 19. (Original) The method of claim 12, wherein the non-volatile memory is separately addressable from a secondary memory.

20. (Currently Amended) A system, comprising:

a central processing unit (CPU);

a main memory coupled to the CPU, wherein the main memory stores data to be

manipulated by the CPU;

a first non-volatile memory coupled to the main memory, wherein the data of the main

memory is stored to the first non-volatile memory if the system is placed in a hibernation

mode; and

a second internal non-volatile memory coupled to the first non-volatile memory, wherein

the second non-volatile memory has a greater storage capacity than the first non-volatile

memory, and wherein the first non-volatile memory has the same address configuration

as the second internal non-volatile memory.

21. (Original) The system of claim 20, wherein a state of the CPU is stored to the first

non-volatile memory if the system is placed in a hibernation mode.

22. (Original) The system of claim 21, wherein the state of the CPU is restored from

the first non-volatile memory when the system is awoken from the hibernation mode.

23. (Original) The system of claim 21, wherein the data of the main memory and the

state of the CPU is stored to the second non-volatile memory.

24. (Original) The system of claim 20, further comprising:

a driver coupled to the main memory and the first non-volatile memory, wherein the

driver writes data of the main memory to the first non-volatile memory.

25. (Original) The system of claim 20, wherein the system is a mobile computer.

Atty Docket No. 42P15529 Application No. 10/643,826 6

26. (Currently Amended) A computer, comprising:

[[a]] an internal hard drive;

means for storing a state of the computer to a non-volatile memory and storing the state of the computer to the hard drive before power down; and

means for loading the state of the computer from the non-volatile memory.

27. (Original) The computer of claim 26, further comprising:

means for accessing the non-volatile memory.

28. (Original) The computer of claim 26, further comprising:

means for reducing power up time of the computer after being placed in a hibernation mode.

29. (Original) The computer of claim 26, further comprising:

means for reducing power consumption of the computer.

30. (Currently Amended) An article comprising a machine readable medium having a plurality of machine readable instructions, wherein when the instructions are executed by a processor, the instructions cause a system to:

write contents of a central processing unit (CPU) to a non-volatile memory that [[is coupled to]] has a same address configuration as a hard disk drive of a mobile or desktop computer prior to being placed in a hibernation mode; and

write data from a random access memory to the non-volatile memory prior to being placed in the hibernation mode.

Atty Docket No. 42P15529 Application No. 10/643,826 31. (Original) The article of claim 30, comprising a machine readable medium

having a plurality of machine readable instructions, wherein when the instructions are

executed by a processor, the instructions further cause a system to:

write the contents of the CPU to the hard disk drive using a transparent write-through

process.

32. (Original) The article of claim 30, comprising a machine readable medium

having a plurality of machine readable instructions, wherein when the instructions are

executed by a processor, the instructions further cause a system to:

initiate a load sequence from the non-volatile memory after being awoken from the

hibernation mode.

33. (Original) The article of claim 31, comprising a machine readable medium having

a plurality of machine readable instructions, wherein when the instructions are executed

by a processor, the instructions further cause a system to:

restore the CPU contents.

34. (New) The method of claim 1, wherein the second non-volatile memory has the

same address configuration as the first non-volatile memory.

35. (New) The method of claim 12, further comprising:

writing the contents of the central processing unit to the hard disk drive before reducing

the power of the hard disk drive.

Atty Docket No. 42P15529

8